

501 P1520

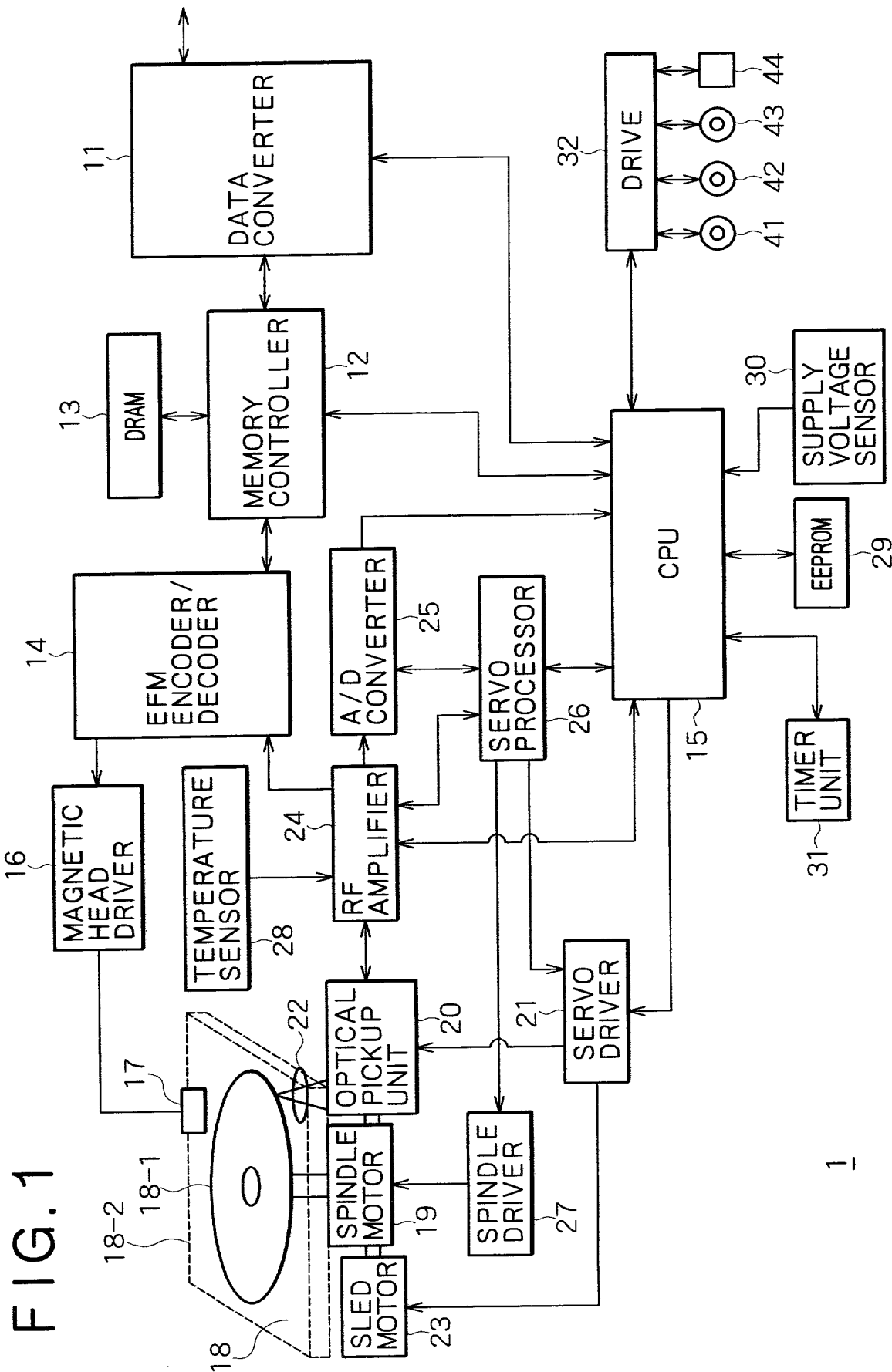


FIG. 2

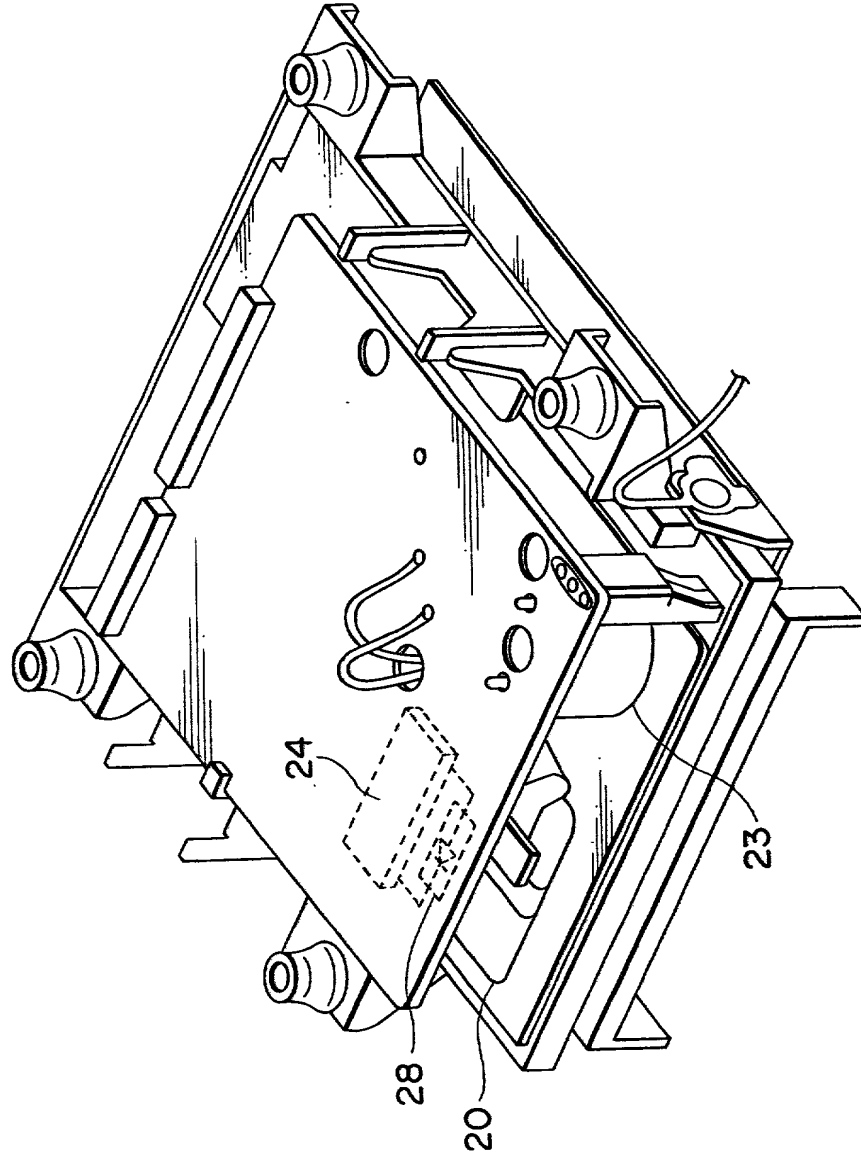


FIG. 3

ADDRESS

00	TEMPERATURE 25°C SETTING
01	LASER POWER SETTING
05	SERVO SETTING
11	SERVO PARAMETER
15	LASER CURRENT-VOLTAGE CONVERSION VALUE SETTING
16	RESERVED
20	SERVO PARAMETER
2C	RESERVED
30	SERVO PARAMETER
62	RESERVED
68	SERVO PARAMETER
A1	RESERVED
A6	SERVO PARAMETER
B0	FREE AREA

	FREE AREA
D6	LASER CURRENT ADJUST VALUE SETTING
D9	ACCUMULATED TIME
DD	CONTENTS CONTROL DATA AREA
F7	IEEE1394 AREA
FF	

FIG. 4

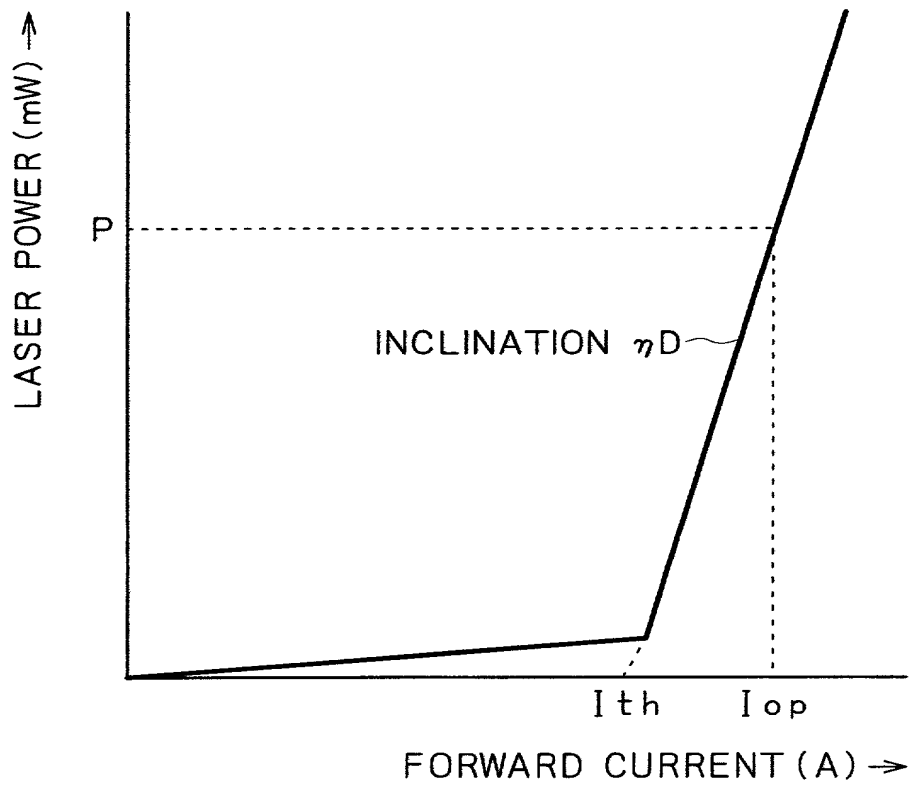
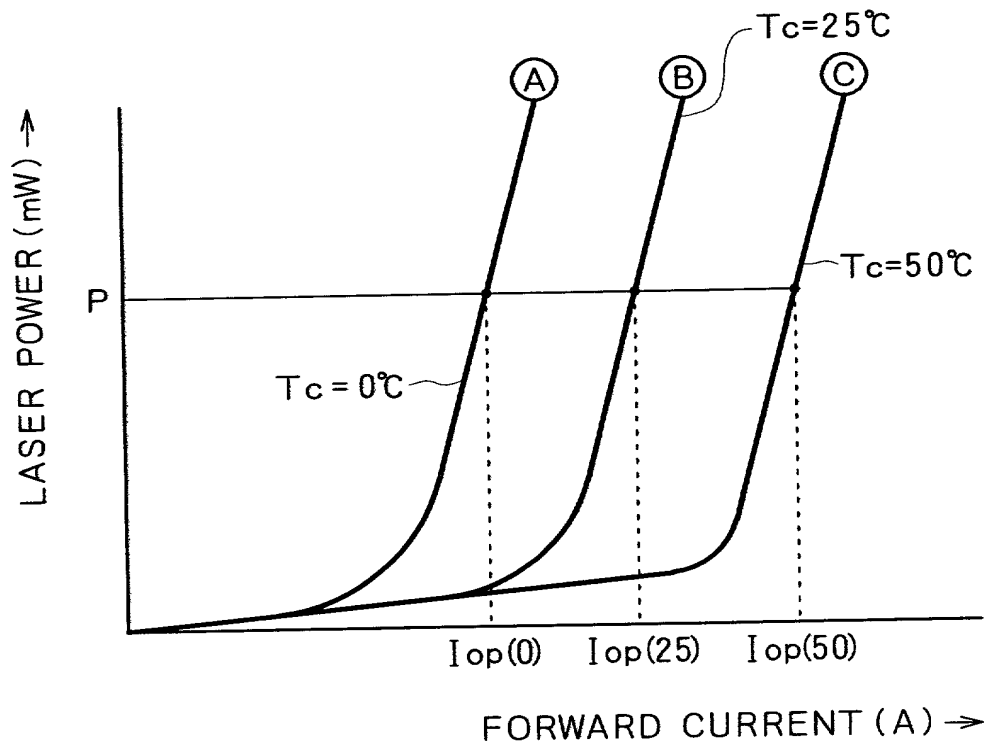


FIG. 5



[illegible]

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FIG. 7A

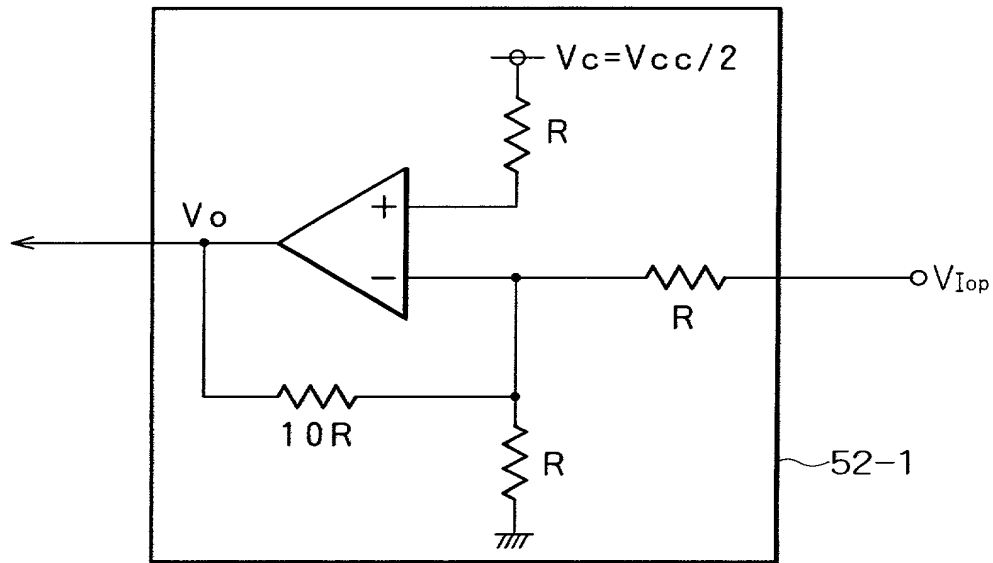


FIG. 7B

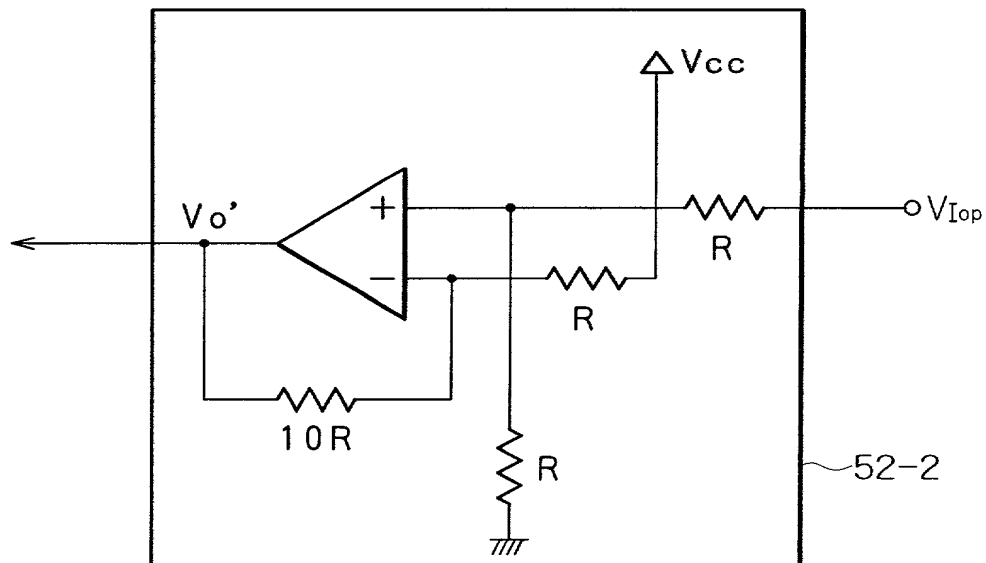


FIG. 8

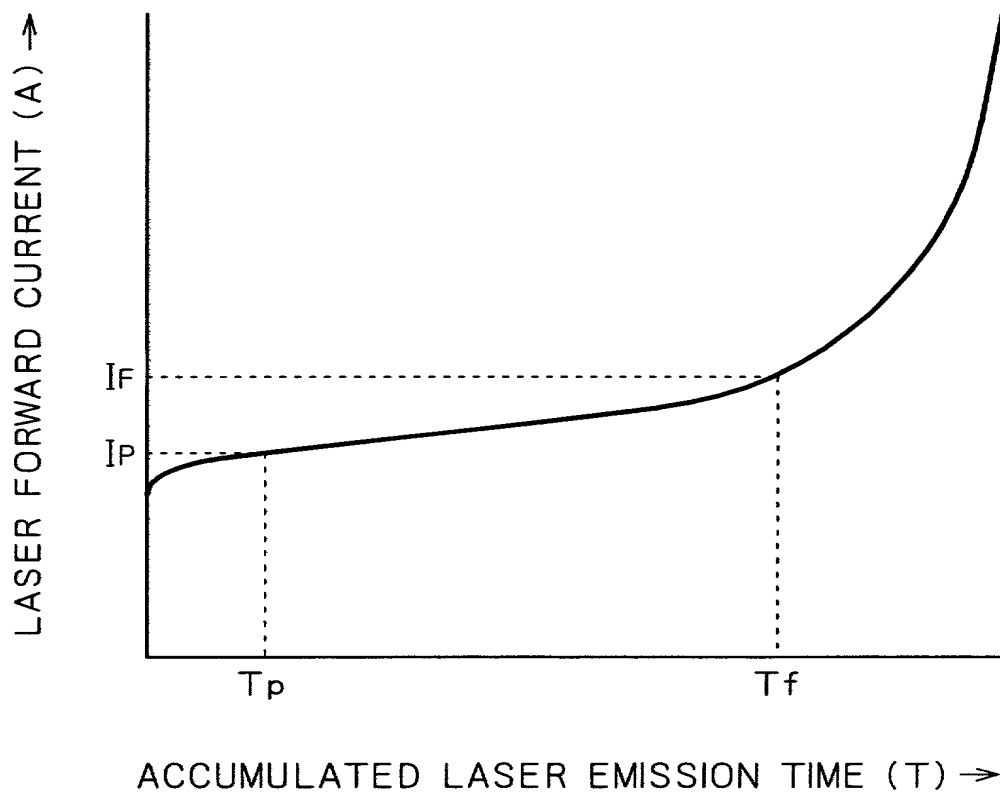


FIG. 9

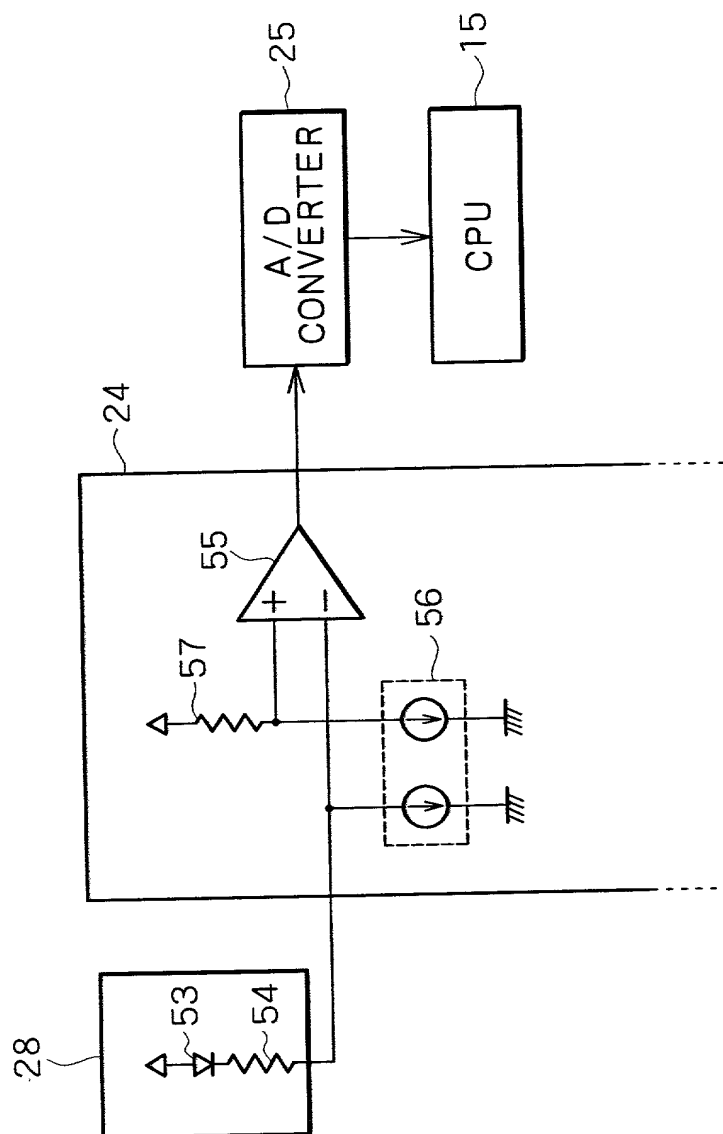


FIG. 10

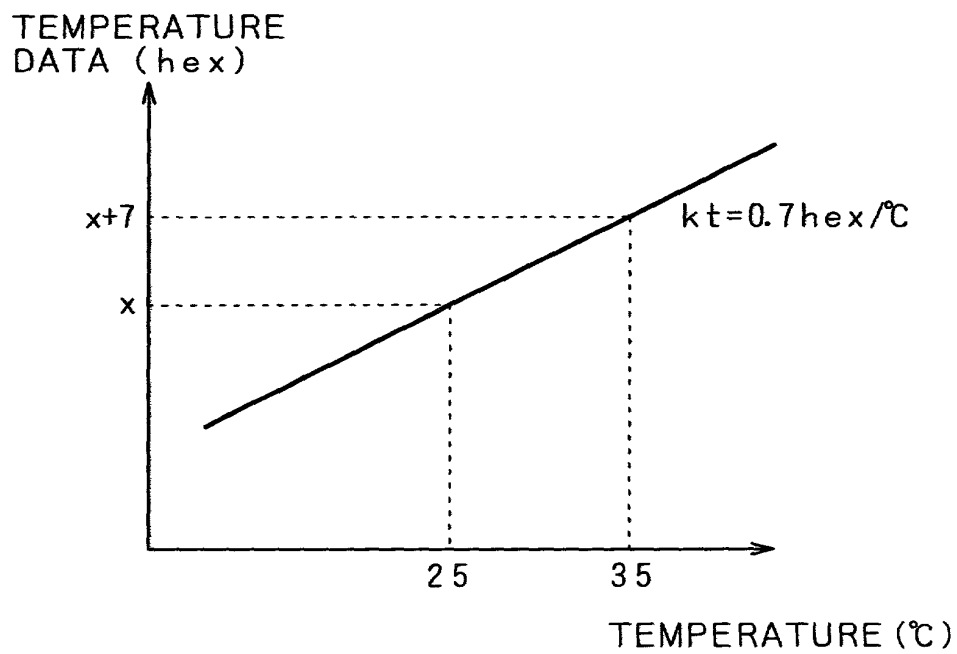


FIG. 11

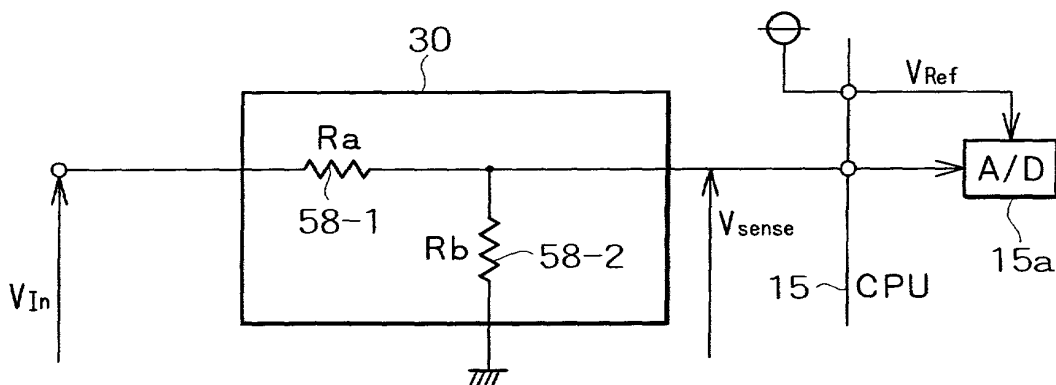
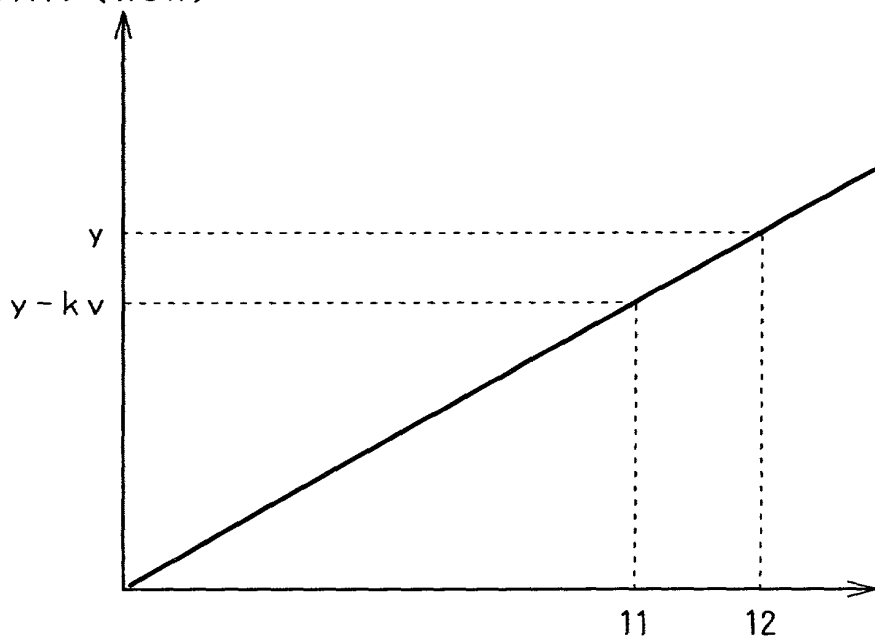


FIG. 12

SUPPLY VOLTAGE
DATA (hex)



SUPPLY VOLTAGE (V)

FIG. 13

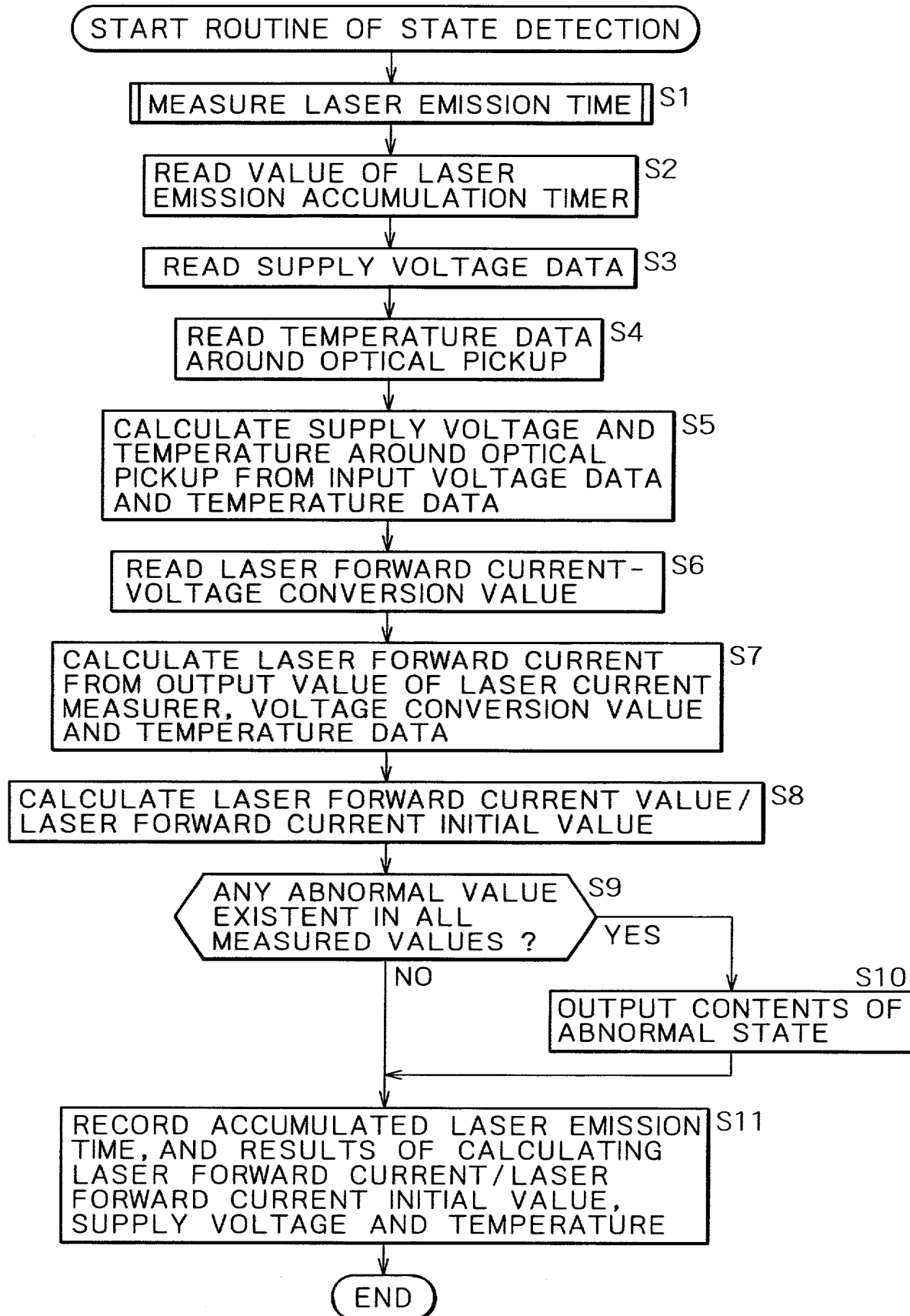


FIG. 14

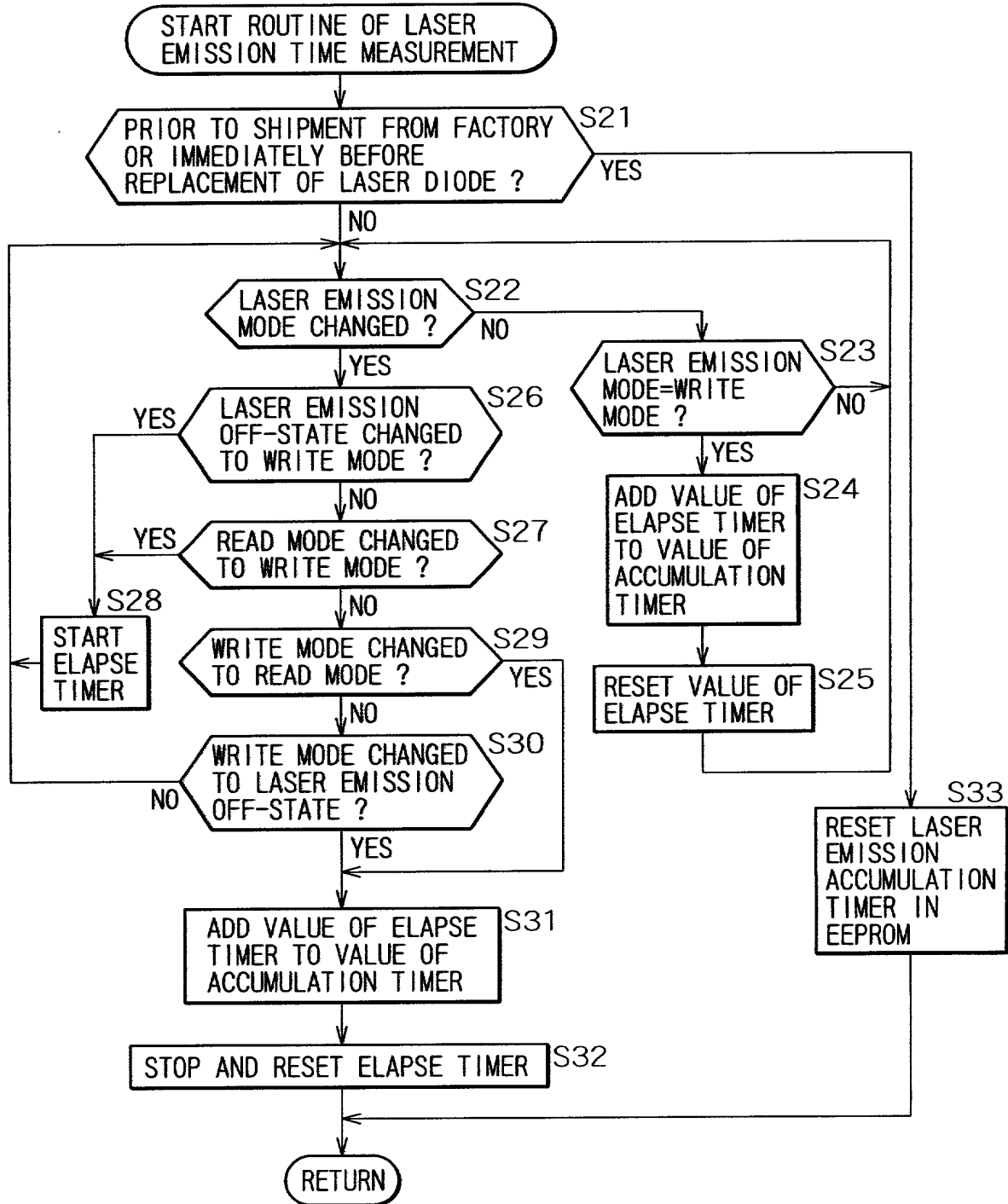
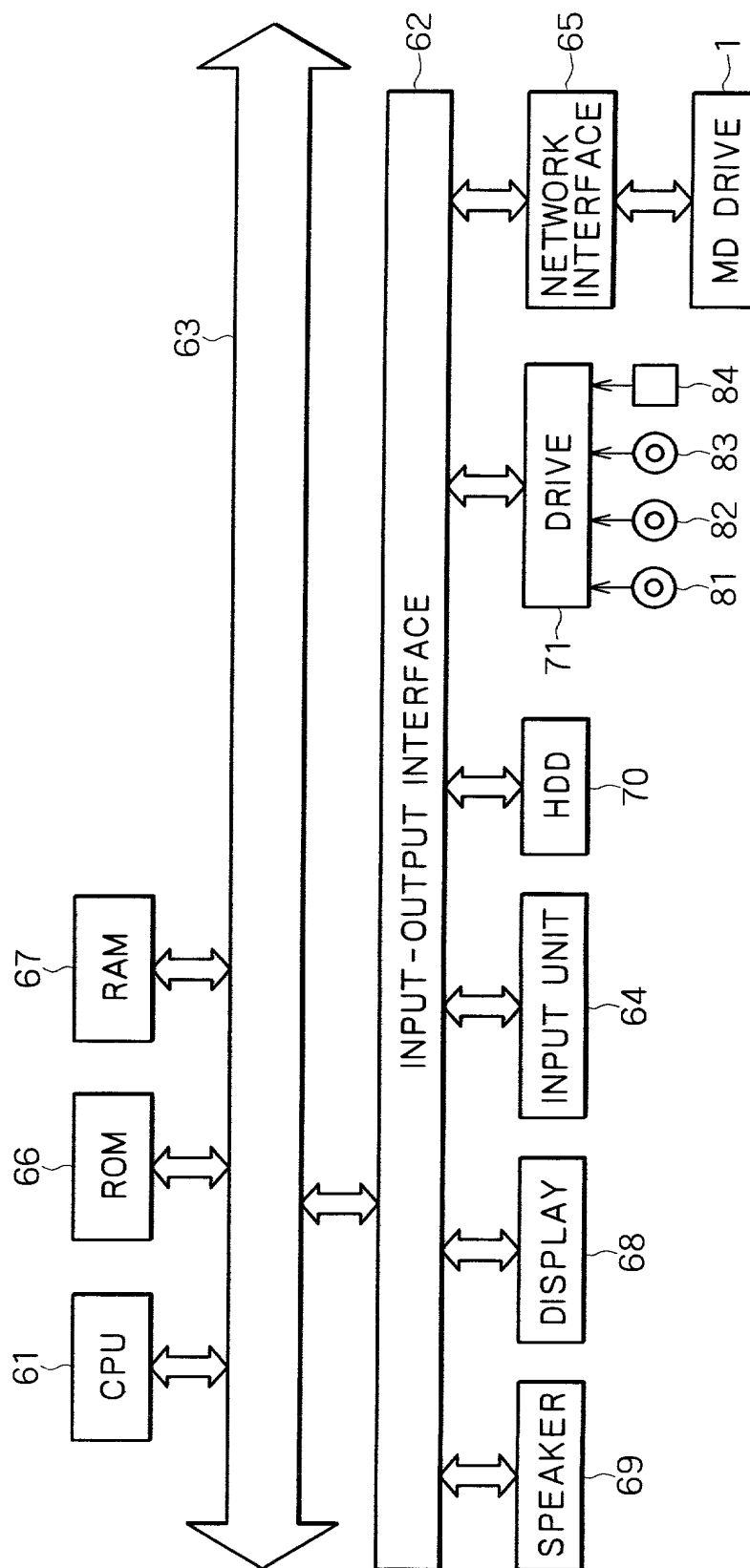


FIG. 15



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graph TD
    subgraph MD_DRIVE [PROCESSING IN MD DRIVE]
        S41[ROUTINE OF LASER EMISSION TIME MEASUREMENT] --> S42[READ VALUE OF LASER EMISSION ACCUMULATION TIMER]
        S42 --> S43[READ SUPPLY VOLTAGE DATA]
        S43 --> S44[READ TEMPERATURE DATA AROUND OPTICAL PICKUP]
        S44 --> S45[READ MEASURED VALUE AND VOLTAGE CONVERSION VALUE OF LASER CURRENT]
        S45 --> S46[TRANSMIT READ DATA AND RESPECTIVE REFERENCE VALUES TO PERSONAL COMPUTER]
    end

    subgraph PC [PROCESSING IN PERSONAL COMPUTER]
        S47[RECEIVE READ DATA AND RESPECTIVE REFERENCE VALUES FROM MD DRIVE] --> S48[CALCULATE SUPPLY VOLTAGE AND TEMPERATURE AROUND OPTICAL PICKUP FROM INPUT VOLTAGE DATA AND TEMPERATURE DATA]
        S48 --> S49[CALCULATE LASER FORWARD CURRENT FROM LASER FORWARD CURRENT-VOLTAGE CONVERSION VALUE AND TEMPERATURE DATA]
        S49 --> S50[CALCULATE LASER FORWARD CURRENT VALUE/LASER FORWARD CURRENT INITIAL VALUE]
        S50 --> S51{ANY ABNORMAL VALUE EXISTENT IN ALL MEASURED VALUES?}
        S51 -- YES --> S52[OUTPUT CONTENTS OF ABNORMAL STATE]
        S51 -- NO --> S53[RECORD ACCUMULATED LASER EMISSION TIME, AND RESULTS OF CALCULATING LASER FORWARD CURRENT/LASER FORWARD CURRENT INITIAL VALUE, SUPPLY VOLTAGE AND TEMPERATURE]
        S52 --> S53
    end

    S46 -.-> S47
    S53 -.-> S41

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